	Application No.	Applicant(s)	
Notice of Allowability	10/699,746	FUKUDA ET AL.	
	Examiner	Art Unit	
	Roy K Potter	2822	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate comm RIGHTS. This application is a	n this application. If not include unication will be mailed in due	ded e course. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are 66 and 67.			
3. 🖾 The drawings filed on <u>04 November 2003</u> are accepted by	y the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority unally All b)  Some* c)  None of the: <ol> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	on No. <u>09/717,227</u> .	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			NOTICE OF
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mu</li> <li>(a) ☐ including changes required by the Notice of Draftsper</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li> </ol>	rson's Patent Drawing Review		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			e back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ☐ Interview S Paper No.	nformal Patent Application (PT Summary (PTO-413), /Mail Date Amendment/Comment	<sup>-</sup> O-152)
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for All	owance
of Biological Material	9. ☐ Other	ROY POTTEI PRIMARY EXAM	Z

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or suggest the recited semiconductor chip with first and second radiation members thermally and electrically connected to a chip sandwiched between them and each having portions exposed from a resin.

Tanaka et al., U.S. Patent No. 5,293,301, discloses a semiconductor device. As shown in the embodiment of Figure 4, the device includes first and second radiation members 35 and 25 which are thermally connected to the semiconductor chip 31, interposed therebetween. Each of the radiation members has a radiation surface for radiating heat from the chip 31 and a portion of each of the radiation members 25 and 35 is exposed form the resin 34. A bonding member 32 and 36 is interposed between each radiation member and the chip.

Tanaka does not disclose that the radiation members are electrically connected to the chip.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy K Potter whose telephone number is 571 272 1842. The examiner can normally be reached on M-F.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roy K Potter Primary Examiner

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